DGC

Prime Power Diesel Generators

Dayliff DGC Cummins generators are robust, high quality units designed for continuous duty in a wide range of power supply applications. All sets offer the following features:-

- Powered by dependable and efficient Cummins water cooled diesel engines.
- Close coupled at 1500rpm to a brushless single bearing alternator with solid state AVR regulation.
- Base frame mounted on anti-vibration mounts and including a high capacity base mounted fuel tank for extended operation periods.
- Powder coated sound and weather proof canopies with residential silencer for extremely low noise operation.
- Integral DSE digital control module that provides selectable readout of electrical voltage, phase current, output frequency and battery voltage and engine speed, hours run, oil pressure and coolant temperature.
- Automatic shut down protection in the event of low engine oil pressure, high engine temperature and over and under speed with warning indicators provided for each condition.
- Digital automatic mains failure provision for starting the generator. An additional automatic transfer switch is also required for mains/generator power transfer.

Dayliff DGC diesel generators are reliable economical and high specification products that are the ideal solution for all continuous duty and standby power generating requirements.

TECHNICAL DATA

GENERATOR MODEL			DGC 45C	DGC 64C	DGC 80C	DGC 104C	DGC 144C	DGC 200C	DGC 250C	DGC 280C
Prime/Standby Power Output		kVA	56/63	80/88	100/110	130/143	180/200	250/275	313/350	350/375
		kW	45/50	64/70	80/88	104/114	144/158	200/220	250/280	280/300
Engine Data	Type		Cummins 4BTA3.9-G2	Cummins 4BTA3.9-G11	Cummins 6BT5.9-G2	Cummins 6BTAA5.9-G2	Cummins 6CTA8.3-G2	Cummins NT855-GA	Cummins NTA855-G1B	Cummins NTA855-G2A
	Rated Power @ 1500rpm (kW)		55	70	86	120	180	231	284	310
	Max Power @ 1500rpm (kW)		50	80	92	130	163	254	321	313
	Aspiration		Turbo charged & Aftercooled							
	No. of cylinders		4		6					
	Displacement (L)		3.9		5.9		8.3	14		
	Fuel Consumption (litres/hr)	75% load	10	13.2	17	23	30	41.3	54.3	54.9
		100% load	12.9	17.6	22	30	40	53.4	71.4	71.9
	Fuel Tank Size (litres)		120		230		420	800		
Dimensions & Weights	Length, A (mm)		2600		3200		3400	4200		
	Width, B (mm)		1100					1500		
	Height, C (mm)		1290		1470		1850	2200		
	Dry Weight (kgs)		1370	1480	1750	1850	2450	4110	4330	4470

GENERATOR MODEL			DGC 320C	DGC 360C	DGC 400C	DGC 460C	DGC 600C	DGC 640C	DGC 800C
Prime/Standby Power Output		kVA	400/438	450/500	500/550	575/650	750/825	800/888	1000/1100
		kW	320/350	360/400	400/440	460/520	600/660	640/710	800/880
Engine Data	Type		Cummins QSNT-G3	Cummins KTA19-G3	Cummins KTA19-G3	Cummins KTAA19-G6	Cummins KTA 38-G2	Cummins KTA 38-G2B	Cummins KTA 38-G5
	Rated Power @ 1500rpm (kW)		392	403	448	520	664	711	881
	Max Power @ 1500rpm (kW)		358	448	504	570	731	790	970
	Aspiration		Turbo charged & Aftercooled						
	No. of cylinders		6				12		
	Displacement (L)		14	19			38		
	Fuel Consumption (litres/hr)	75% load	62.3	97	107	131.5	167		209
		100% load	83.9	107	121	143.5	183	184	228
	Fuel Tank Size (litres)		800	1070		1080	1300		
Dimensions & Weights	Length, A (mm)		4200	4800			5800		
	Width, B (mm)		1500	1700		1900	2150		
	Height, C (mm)		2200	2340		2430	2540		
	Dry Weight (kgs)		4670	5500	5600	6020	10350		10650

ALTERNATOR DATA	
Alternator Type	Self excited 4 pole (1500rpm) single bearing, brushless
Output Voltage	3x415V
Voltage Regulation	Solid state AVR±1.0% with 4% engine governing
Insulation Class	H
Protection Rating	IP21

DERATING: Given outputs are sea level rating. Sets should be derated at 1% for every 100m higher than 100m above sea level, and 2% for every 5°C temperature above 20°C for naturally aspirated engines. Refer to manufacturers tables for accurate ratings.